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TITLE: Switched-mode power supply.

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ABSTRACT:

A circuit arrangement comprising a controlled electronic switch.

In switched-mode power supplies, a protective circuit must be provided which protects the electronic switch (9) of the switched-mode power supply against currents which are too large. Since this switch (9) has a switch-off delay, it must be switched off some microseconds before the maximum permissible peak current is reached. The current at which the disconnection must occur at the latest is set in such a manner that the final value of the current does not exceed the maximum permissible current at the maximum input voltage of the switched-mode power supply. With a lower input voltage, the final value of the current remains far below this maximum current because of the lower current rise when the protective circuit has responded. This narrows the control range and impairs the efficiency.

This disadvantage is eliminated by the fact that the response threshold for the protective circuit (10, 12, 13, 14, 15, 16) is designed to be sliding in dependence on the input voltage (U) supplied to the switched-mode power supply.

Electronic equipment, particularly television receivers.